

Case 4-22868/A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Athanassios Tzikas et al.

Serial No. 10/551,319

Group Art Unit: 1796

Filed September 29, 2005

For MIXTURE OF REACTIVE DYES AND THEIR USE

Examiner: A. Khan

DECLARATION UNDER RULE 132

I, Georg ROENTGEN, a citizen of Germany, residing at Pochgasse 13, D-79104 Freiburg im Breisgau, hereby declare:

That I was awarded the degree of a Chemical Engineer of the Fachhochschule Aachen, (Germany), in 1990;

That I have been employed by Ciba Specialty Chemicals, Basel, as a research chemist since 1990 and by Huntsman Advanced Materials (Switzerland) GmbH since 2006 and presently hold the position of a Research Chemist in the Division Materials and Effects;

That I have been engaged in the field of dyestuffs for Ciba Specialty Chemicals since 1990 and for Huntsman Advanced Materials since 2006;

That based on the above education and experience, I consider myself an expert in the field of dyestuffs.

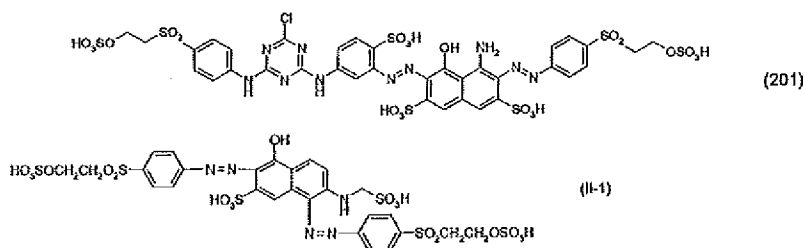
I, Georg ROENTGEN, declare that the preparation of dyestuffs of formulae (A) and (B) as indicated in Part 1 of this Declaration as well as the following dyeings as indicated in Part 2 of this Declaration were carried out under my direction and supervision;

That I am submitting herewith the following exact report of the tests mentioned below.

A bleached cotton fabric (1-4002/8) was dyed with Dyestuff Mixtures A (invention) and B (prior art), respectively, according to the exhaust process as described in Example 1 of the present application. The dyes were applied in such amounts that dyeings of the same colour strength were obtained (Mixture A: 6.35 %, Mixture B: 4.54 %, based on the amount of liquor).

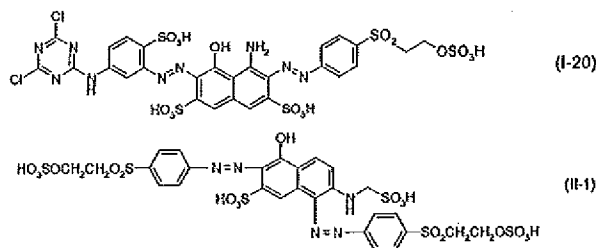
Mixture A (invention):

of 75 % dye of formula (201) und 25 % of dye of formula (II-1)



Mixture B (prior art):

75 % (I-20) and 25 % (II-1) according to Ex. 676 of WO 03/080739



Fastness properties of the coloured specimens were determined; the results (bleeding on cotton, specified in grades from 1 to 5) are summarized in Table 1:

Table 1:

Dye Mixture	A (invention)	B (prior art)
Peroxide washing 95 °C (E2S ISO 105/C06)	4-5	4-5
Washing 60 °C (5 times) (E1S ISO 105/C06)	4-5	4-5
Acid hydrolysis 37 °C	1-2	4

I, Georg ROENTGEN, hereby declare:

1. That based on my education and experience, I consider myself an expert in the field of dyeing art and dyestuff preparation;
2. That the results of the above tests show that the new dyestuff mixture (A) is superior to the structurally closest dyestuff mixture B with respect to the property tested;
3. That fastness to acid hydrolysis is an important feature for the textile industry and an improvement in this property is of considerable importance;
4. That the above given measurement of fastness to acid hydrolysis demonstrates a significant improvement in this property which is of commercial importance;
5. That the results of the tests are surprising to me and I would not have predicted such difference in the property tested.

I, Georg ROENTGEN, declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed this 17th day of October 2008


Georg ROENTGEN